

## UNITED STA DEPARTMENT OF COMMERCE

**United States Patent and Trademark Office** 

Address: COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

FIRST NAMED INVENTOR APPLICATION NO. FILING DATE 01/19/00 **AMEMIYA** ΙΥ 35.C14183 09/487,718 **EXAMINER** IM22/0606 005514 FITZPATRICK CELLA HARPER & SCINTO ART UNIT PAPER NUMBER 30 ROCKEFELLER PLAZA NEW YORK NY 10112 1765 DATE MAILED: 06/06/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

# **BEST AVAILABLE COPY**

		Application No.	Applicant(s)
•		09/487,718	AMEMIYA, MITSUAKI
Office Action Summary		Examiner	Art Unit
		Robert M Kunemund	1765
	Th MAILING DATE of this communication app		
Period fo			•
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36 (a). In no event, however, may a rep y within the statutory minimum of thirty ( vill apply and will expire SIX (6) MONTH , cause the application to become ABAN	ly be timely filed  30) days will be considered timely.  IS from the mailing date of this communication.  IDONED (35 U.S.C. § 133).
1)⊠	Responsive to communication(s) filed on 151	<u> March 2001</u> .	
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.	
3)	Since this application is in condition for allows closed in accordance with the practice under		
Dispositi	on of Claims		
4)🖂	Claim(s) 1-55 is/are pending in the application	1.	
	4a) Of the above claim(s) <u>1-32,37,38 and 40-5</u>	5 is/are withdrawn from cons	sideration.
5)	Claim(s) is/are allowed.		
6)⊠	Claim(s) 33-36 and 39 is/are rejected.		
7)	Claim(s) is/are objected to.		
8)	Claims are subject to restriction and/or	r election requirement.	
Applicati	on Papers		
9)	The specification is objected to by the Examine	er.	
10)	The drawing(s) filed on is/are objected to	to by the Examiner.	
11)	The proposed drawing correction filed on	_ is: a)□ approved b)□ c	lisapproved.
12)	The oath or declaration is objected to by the E	xaminer.	
Priority u	ınder 35 U.S.C. § 119		
	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 1	119(a)-(d) or (f).
-	X All b) Some * c) None of:	· ·	• • • • • • • • • • • • • • • • • • • •
,-	1.⊠ Certified copies of the priority document	s have been received.	
	2. Certified copies of the priority document		olication No
* ^	3. Copies of the certified copies of the prio application from the International Bu	reau (PCT Rule 17.2(a)).	-
	See the attached detailed Office action for a list	•	
14)	Acknowledgement is made of a claim for dome	esuc priority under 35 U.S.C	. g 119(e).
Attachment		_	
16) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s) :	19) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)

يبلاب الراوة

#### **DETAILED ACTION**

Claims 1 to 32, 37, 38, and 40 to 55 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 8.

#### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 33 to 36 and 39 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims fail to particularly point out and distinctly claim the subject matter.

The claims all depend on non-elected claims, the claims must be written in independent form so that the invention will be fully claims and clear.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

Application/Control Number: 09/487,718

Art Unit: 1765

وطن المرباه

were made absent any evidence to the contrary. Applicant is advised of the obligation

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g)

prior art under 35 U.S.C. 103(a).

Claims 33 to 36 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kennedy et al in view of Mizugaki et al..

The Kennedy et al reference teaches a method of crystal growth. In a furnace, a crucioble of melt is formed and then the crucible is moved so as to create a crystalline growth front and crystallize the melt into a single crystal. There is a plurality of temperature measurements taken during the growth by thermocouples. The information is then fed to a control loop system to control temperatures and growth in the furnace, note entire reference. The sole difference between the instant claims and the prior art is the growth of fluorides. However, the Mizugaki et al reference teaches Bridgeman growth of fluorides to create crystals, note, col. 2 It would have been obvious to one of ordinary skill in the art to modify the Kennedy et al process by the teachings of the Mizugaki et al reference to grow fluorides in order to obtain large crystals of fluorides.

### Examiner's Remarks

The remaining references are, merely cited of interest as showing the state of the art.

Application/Control Number: 09/487,718

Art Unit: 1765

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M Kunemund whose telephone number is 703-308-1091. The examiner can normally be reached on 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ben Utech can be reached on 703-308-3636. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3599 for regular communications and 703-305-3955 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-

1193.

RMK June 4, 2001

> ROBERT KUNEMUND PRIMARY EXAMINER